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(71)Applicant : MATSUSHITA ELECTRIC IND CO
LTD

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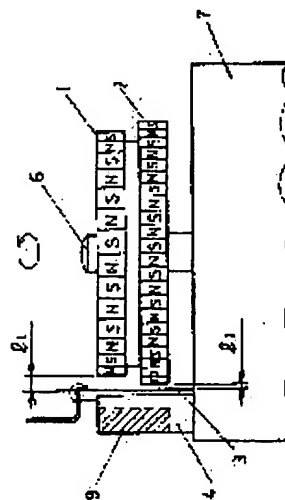
(72)Inventor : ABE GORO

(54) MAGNETIC ENCODER

(57)Abstract:

PURPOSE: To obtain the output which has a satisfactory waveform, and also, whose magnitude is uniform by using two pieces of magnetic drums whose outside diameters are different, performing magnetization whose number of poles is large to the magnetic drum whose outside diameter is large, and performing magnetization whose number of poles is small to the magnetic drum whose outside diameter is small.

CONSTITUTION: A magnetic drum B2 has a larger number of magnetization poles than that of a magnetic drum A1, and also, its outside diameter is larger. In the case the number of magnetization poles of the drum B2 is too large and an output VB corresponding to the drum B2 of an MR element 3 becomes too small, an output voltage of VB of appropriate magnitude is obtained by making a clearance I2 between the drum B2 and the element 3 small. In the case VB is still small even when the void I2 is made small, the outside diameter of the drum B2 is also made large together. On the other hand, as for the drum A1 whose number of magnetization poles is small, the void I1 is made larger than I2 by selecting its outside diameter appropriately smaller than that of the drum B2, so that the corresponding output VA of the element is not distorted by saturation, and also, magnitude of VA and VB becomes roughly uniform.



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G 0 1 D 5/245	Y			
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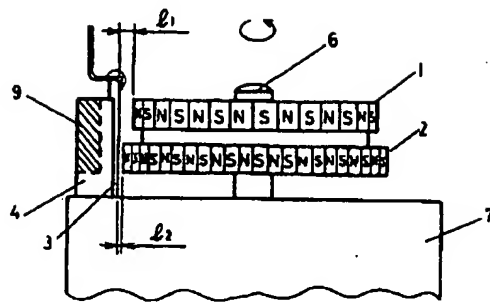
(54) 【発明の名称】 磁気式エンコーダ

(57) 【要約】 本公報は電子出願前の出願データであるため要約のデータは記録されません。

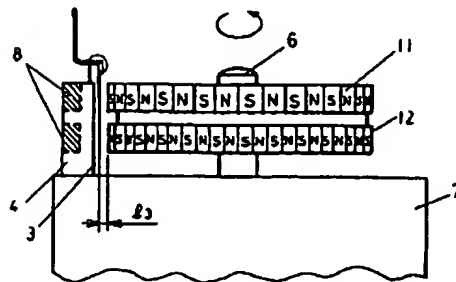
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第 1 図

- 1--- 磁気ヘッドA
 2--- 磁気ヘッドB
 3--- MR 素子

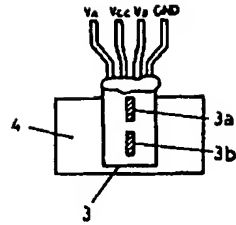


第 2 図

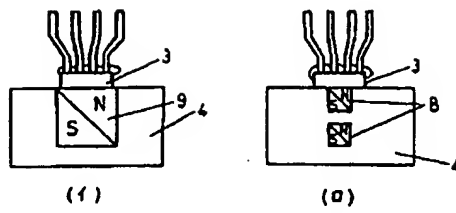


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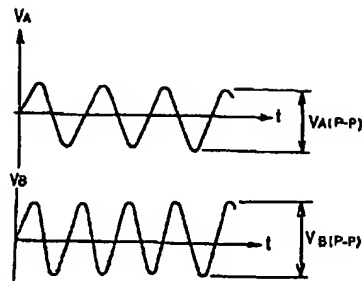
第 3 図



第 4 図



第 5 図



第 6 図

